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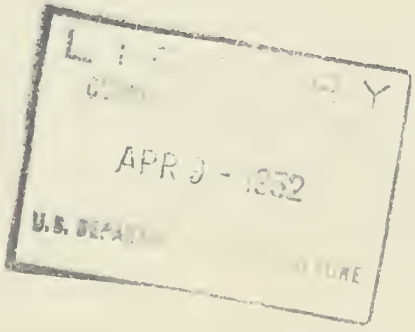
UNITED STATES DEPARTMENT OF AGRICULTURE
Agricultural Research Administration
Bureau of Agricultural and Industrial Chemistry

THE PRODUCTION OF ORGANIC ACIDS BY FERMENTATION

The Technical Literature and Patents of the U.S. Department of Agriculture



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U.S. DEPARTMENT OF AGRICULTURE

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THE PRODUCTION OF ORGANIC ACIDS BY FERMENTATION

The Technical Literature and Patents of the U. S. Department of Agriculture

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INTRODUCTION

The demand for greater quantities of organic acids, such as citric, fumaric gluconic, and lactic, for the preparation of foods, plastics, or pharmaceuticals, and the resultant need for added knowledge of their production are continually increasing. The fermentative production of these acids has been studied for a number of years by workers in the United States Department of Agriculture and is now fairly well perfected. In addition to this work, new acids are being discovered and produced in quantity. Their total potentialities have hardly been revealed; but continued research would appear to assure uses for 2- and 5-ketogluconic, α-ketoglutaric, malto- and lactobionic, kojic, and itaconic acids. The last-named acid, for example, is already becoming a valuable asset in the field of plastics.

This bibliography is a compilation of technical publications and patents on the fermentative production of organic acids by workers in the Department of Agriculture. The agencies responsible for the work herein are known under the following current designations: Bureau of Agricultural and Industrial Chemistry, 60 items; Bureau of Dairy Industry, 16 items; and the Bureau of Plant Industry, Soils, and Agricultural

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Engineering and the Production and Marketing Administration, 1 item each. The references supplement a chapter entitled, "Fermentation Acids in Industry," written by Frank H. Stodola and Richard W. Jackson for the 1950-51 Yearbook of Agriculture. Together, these publications summarize one aspect of the Department's work, namely, the fermentative production of organic acids.

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